

## 1998 TAFI Publications

Ault, T.R., Johnson, C.R. (1998). Relationships between habitat and recruitment of three species of damselfish (Pomacentridae) at Heron Reef, Great Barrier Reef. *Journal of Experimental Marine Biology and Ecology*, **223**: 145-166.

Ault, T.R., Johnson, C.R. (1998). Spatial variation in fish species richness on coral reefs: habitat fragmentation and stochastic structuring processes. *Oikos*, **82**: 354-364.

Ault, T.R., Johnson, C.R., (1998). Spatially and temporally predictable fish communities on coral reefs, *Ecological Monographs*, **68**: 25-50.

Barmuta, L.A., Chessman, B.C., Hart, B.T. (1998). Interpreting the outputs from AUSRIVAS, Land & Water Resources Research and Development Corporation, 2/98.

Barnett, C.W. (1998). Reproductive biology and endocrinology of the greenback flounder *Rhombosolea tapirina* (Günther, 1862).

Barnett, C.W., Pankhurst, N.W. (1998). The effects of common laboratory and husbandry practices on the stress response of greenback flounder *Rhombosolea tapirina* (Günther, 1862), *Aquaculture*, **162**: 313-329.

Bermudes, M. and Ritar, A.J., (1999). Effects of temperature on the embryonic development of striped trumpeter (*Latris lineata*). *Aquaculture*. 176, 245-255.

Bermudes, M., (1999). Effect of photoperiod on survival, growth, feeding and cannibalism in early developmental stages of *Jasus edwardsii* phyllosoma larvae. In *Proceedings of the 1999 FRDC rock lobster propagation workshop, Jan 29th - 31st, Hobart*. Tasmanian Aquaculture and Fisheries Institute, University of Tasmania, p. 19.

Brown, M.R., Skabo, S. and Wilkinson, B., (1998). The enrichment and retention of ascorbic acid in rotifers fed microalgal diets. *Aquaculture Nutrition*, 4: 151-156.

Bissett, A.P., Burke, C.M., Dunstan, G., Maguire, G.B. (1998). Bacterial colonization of a formulated abalone diet during extended immersion. *Journal of Shellfish Research*, **17**.

Blyth, P.J., Kadri, S., Valdimarrson, S., Mitchell, D., Purser, G.J. (1998). Inter-seasonal variation in diurnal feeding patterns in caged Atlantic salmon. *The Feeding Behaviour of Fish in Culture*, Umea, Sweden. **11**.

Brothers, N., Gales, R., Hedd, A., Robertson. (1998). Foraging movements of the Shy Albatross *Diomedea cauta* breeding in Australia - Implications for interactions with longline fisheries, *Ibis*, **140**(3): 446-457

- Burridge, C.P. (1998). Evolutionary genetics of the cheilodactylid fish genera *Nemadactylus* and *Acantholatris* (Perciformes: Cheilodactylidae), *Evolutionary Biology at High Southern Latitudes*, Hobart, Tasmania, 9-16.
- Carter, C.G. Houlihan, D.F., He, Z., Thonon, P., Davidson, I. (1998). Changes in tissue free amino acid concentrations in Atlantic salmon (*Salmo salar* L.) following feeding. *Recent Advances in Finfish and Crustacean Nutrition*, Canaria, Spain, **26**.
- Carter, C.G., Seeto, G.S., Smart, A.R., Clarke, S., van Barneveld, R.J., (1998). Correlates of growth in farmed juvenile southern bluefin tuna *Thunnus maccoyii* (Castelnaud), *Aquaculture*, **161** 107-119.
- Carter, C.G. (1998). Fish Meal Replacement in Aquaculture Feeds for Atlantic Salmon. Fisheries Research and Development Corporation, University of Tasmania.
- Carter, C.G., Houlihan, D.F., Owen, S.F. (1998). Protein synthesis, nitrogen excretion and long-term growth of juvenile *Pleuronectes flesus*. *Journal of Fish Biology*, **53**: 272-284.
- Carter, C.G., van Barneveld, R.J., Smart, A.R., Clarke, S.M., Bransden, M.P., Upton, Z., England, H.C. (1998). Research on the feeding and nutrition of southern bluefin tuna (*Thunnus maccoyii*), Programme and Abstracts, Canaria, Spain, **50**.
- Carter, C.G., (1998). Sustainable Aquaculture by J.E. Bardach, *Aquaculture International*, **6** (3): 254-255.
- Catap, E.S., Munday, BL (1998). Effects of variation of water temperature and dietary lipids on the expression of experimental Epizootic Ulcerative Syndrome (EUS) in sand whiting, *Sillago ciliata*. *Fish Pathology*, **33** (4): 327-335.
- Chen, W.M., Purser, G.J, Blyth, P.J. (1998). Circadian feeding rhythms in greenback flounder (*Rhombosolea tapirina*): role of light-dark cycles, *The Feeding Behaviour of Fish in Culture*, Umea, Sweden, 15.
- Cleary, J.J. (1998). The Effect of stress on reproduction in snapper (*Pagrus auratus*).
- Cobcroft, J.M., Pankhurst, P.M., and Hart, P.R. (1998) 'Sensory organ development in larval striped trumpeter *Latris lineata* and implications for feeding behaviour'. *AMSA Bulletin*, No. 143: 12.
- Crear, B.J. (1998). A physiological investigation into methods of improving the post-capture survival of both the southern rock lobster, *Jasus edwardsii*, and the western rock lobster, *Panulirus cygnus*.
- Crear, B.J, Forteach, G.N.R. (1998). A physiological investigation into methods of improving post-capture survival of both the southern rock lobster, *Jasus edwardsii*, and

the western rock lobster, *Panulirus cygnus*. Project 94/134.03, Fisheries Research and Development Corporation, University of Tasmania.

Crear, B., Mills, D., Ritar, A., Thomas, C. and Hart, P. (1998). Rock lobster (*Jasus edwardsii*) aquaculture. *Annual Report 1997/98, Tasmanian Aquaculture and Fisheries Institute, University of Tasmania*, 29 pp.

Dunstan, P.K., Johnson, C.R. (1998). Spatio-temporal variation in coral recruitment at different scales on Heron Reef, southern Great Barrier Reef", *Coral Reefs*, **17**: 71-81.

Evans, B.S., White, R.W.G., Ward, R.D. (1998.) Genetic identification of asteroid larvae from Tasmania, Australia, by PCR-RFLP" *Molecular Ecology*, **7**: 1077-1082.

Farrell, P.A.T., Purser, G.J. (1998). Feed consumption and feeding behaviour of triploid rainbow trout, *Austasia Aquaculture*, **12** (4): 30-31.

Farrell, P.A.T., Purser, G.J., Forteach, G.N.R. (1998). Triploid rainbow trout (*Oncorhynchus mykiss*): metabolic rate and growth. *Austasia Aquaculture*, **12** (4): 28-29.

Findlay, V.L., Munday, B.L. (1998). Further studies on acquired resistance to amoebic gill disease (AGD) in Atlantic salmon, *Salmo salar* L. *Journal of Fish Diseases*, **21** (2): 121-125.

Frances, J., Allan, G.L., Nowak, B.F. (1998). The effects of nitrite on the short-term growth of silver perch (*Bidyanus bidyanus*). *Aquaculture*, **163**: 63-72.

Frusher, S., (1999). Rock lobster research in the crayfish point reserve at Tarroona. *Fishing Today*, **12**(2): 20-21.

Gardner, C. (1998). The first record of larvae of the giant crab *Pseudocarcinus gigas* in the plankton. *Papers and Proceedings of the Royal Society of Tasmania*, **132**: 47-48.

Gardner, C., (1999). The Tasmanian rock lobster stock assessment model. *Fishing Today*, **12** (3): 20-22.

Gardner, C., (1998). The southern rock lobster recruitment monitoring program. *Invertebrata*, **10**: 1.

Gardner, C., (1999). Spider crab aggregation on Tasmania's northwest coast. *Invertebrata*, **14**: 1-2.

Gardner, C. and Maguire, G.M., 1998. Effect of photoperiod and light intensity on survival, development and cannibalism of larvae of the Australian giant crab *Pseudocarcinus gigas* (Lamarck). *Aquaculture*, **165**: 51-63.

Gardner, C., Quintana, R. (1998). Larval development of the Australian giant crab, *Pseudocarcinus gigas* (Lamarck, 1818) (Decapoda: Oziidae) reared in the laboratory. *Journal of Plankton Research*, **20** (6): 1169-1188.

Gibson, L.F., Woodworth, J.G., George, A.M. (1998). Probiotic activity of *Aeromonas media* on the Pacific oyster, *Crassostrea gigas*, when challenged with *Vibrio tubiashii*. *Aquaculture*, **169** (1-2): 111-120.

Haddy, J.A., Pankhurst, N.W. (1998). Annual change in reproductive condition and plasma concentrations of sex steroids in black bream, *Acanthopagrus butcheri* (Munro) (Sparidae). *Marine and Freshwater Research*, **49**: 389-397.

Haddy, J.A., Pankhurst, N.W. (1998). The dynamics of *in vitro* 17 $\beta$ -estradiol secretion by isolated ovarian follicles of the rainbow trout (*Oncorhynchus mykiss*). *Fish Physiology and Biochemistry*, **18** 267-275.

Hallegraeff, G.M., Munday, B.L., Baden, D.G., Whitney, P.L. (1998). *Chattonella marina* raphidophyte bloom associated with mortality of cultured bluefin tuna (*Thunnus maccoyii*) in South Australia. *Harmful Algae, Vigo, Spain*, 93-96.

Harris, J.O., Burke, C.M., Maguire, G.B. (1998). Characterisation of the digestive tract of greenlip abalone, *Haliotis laevis* Donovan. I. Morphology and histology. *Journal of Shellfish Research*, **17**:(4).

Harris, J.O., Burke, C.M., Maguire, G.B. (1998). Characterization of the digestive tract of greenlip abalone, *Haliotis laevis* Donovan. II. Microenvironment and bacterial flora. *Journal of Shellfish Research*, **17**(4).

Harris, J.O., Maguire, G.B., Edwards, S.J., Hindrum, S.M. (1998). Effect of ammonia on the growth rate and oxygen consumption of juvenile greenlip abalone, *Haliotis laevis* Donovan. *Aquaculture*, **160**(1/2) 259-272

Harris, J.O., Maguire, G.B., Edwards, S.J., Hindrum, S.M. (1997). Effect of nitrite on growth and oxygen consumption for juvenile greenlip abalone, *Haliotis laevis* Donovan. *Journal of Shellfish Research*, **16**(2): 395-401.

Harris, J.O., Maguire, G.B., Handlinger, J.H. (1998). Effects of chronic exposure of greenlip abalone, *Haliotis laevis* Donovan, to high ammonia, nitrite, and low dissolved oxygen concentrations of gill and kidney structure. *Journal of Shellfish Research*, **17**(3): 683-687.

Hart, P.R., 1999. *Proceedings of the 1999 FRDC rock lobster propagation workshop, Jan 29<sup>th</sup> - 31<sup>st</sup>, Hobart*. Tasmanian Aquaculture and Fisheries Institute, University of Tasmania, 28 pp.

Hawkesford, T.M. (1998). Microbiological studies of *Lactococcus garviae* in fish.

- Hedd, A., Gales, R., Brothers, N. (1998). Reliability of morphometric measures for determining the sex of adult and fledgling Shy Albatrosses, *Diomedea cauta cauta*, in Australia, *Wildlife Research*, **25** (1): 69-79.
- Hull, C.L., Hindell, M.A., Gales, R.P., Meggs, R.A., Moyle, D.I., Brothers, N.P. (1998). The efficacy of translocating little penguins *Eudyptula minor* during an oil spill Biological Conservation, **86**: 393-400.
- Jackson, J.E. (1997). State of Habitat Availability and Quality in Inland Waters, State of the Environment Australia, **1** (1): 85.
- Klinger, T.S., Johnson, C.R. (1998). Spatial and temporal distribution of feeding of Aspidochirotida (Holothuroidea) on Heron Island, Great Barrier Reef, Proceedings of the Ninth International Echinoderm Conference, San Francisco, 467-471.
- Laws, E.A., Thompson, P.A., Popp, B.N., Bidigare, R.R. (1998). Sources of inorganic carbon for marine microalgal photosynthesis: A reassessment of d13C data from batch culture studies of *Thalassiosira pseudonana* and *Emiliana huxleyi*. *Limnology and Oceanography*, **43**(1): 136-142.
- Lewis, T., Nichols, P.D., Hart, P.R., Nichols, D.S. and McMeekin, T.A., (1998). Enrichment of rotifers *Brachionus plicatilis* with eicosapentaenoic acid and docosahexaenoic acid produced by bacteria. *J. World Aqua. Soc.*, 29(3):313-318.
- Lockhart, S.J., Ritz, D.A. (1998). Feeding rates of the introduced sea star, *Asterias amurensis* (Lutken), in Tasmania', Proceedings of 9th International, Echinoderm Conference, San Francisco.
- Lush, G.J., Hallegraeff, G.M., Munday, B.L. (1998). Histopathological effects in juvenile greenback flounder *Rhombosolea tapirina* exposed to the toxic dinoflagellate *Alexandrium minutum*', Harmful Algae, Vigo, Spain, 609-610.
- Mills, D., Crear, B., Hart, P. (1998). Rock lobster puerulus for aquaculture? *Fishing Today*, **11**(3):9-11.
- Morehead, D.T., (1998). Effect of capture, confinement and repeated sampling on plasma steroid levels and oocyte size in female striped trumpeter *Latris lineata* (Latrididae). *Marine and Freshwater Research*, **49**: 373-377.
- Morehead, D.T., Pankhurst, N.W., Ritar, A.J. (1998). Effect of treatment with LHRH analogue on oocyte maturation, plasma sex steroid levels and egg production in female striped trumpeter *Latris lineata* (Latrididae). *Aquaculture*, **169**: 315-331.
- Munday, B.L., Xiao-quo, S., Harshbarger, J.C. (1998). A survey of product defects in Tasmanian Atlantic salmon (*Salmo salar*). *Aquaculture*, **169** (3-4): 297-302

Munday, B.L., Whittington, R.J., Stewart, N.J. (1998). Disease conditions and subclinical infections of the platypus (*Ornithorhynchus anatinus*). *Philosophical Transactions of the Royal Society*, **353**(1372): 1093-1099.

Munday, B.L., Hallegraeff, G.M. (1998). Mass mortality of captive southern Bluefin Tuna (*Thunnus maccoyii*) in April/May 1996 in Boston Bay, South Australia: A complex diagnostic problem. *Fish Pathology*, **33**(4): 343-350.

Munday, B.L., Stewart, N.J., Sodergren, A. (1998). Occurrence of polychlorinated biphenyls and organochlorine pesticides in platypuses (*Ornithorhynchus anatinus*) in Tasmania. *Australian Veterinary Journal*, **76**(2): 129-130.

Munday, B.L., Chandran, J. (1998). Postmortem changes in the gills of rainbow trout (*Oncorhynchus mykiss*) in freshwater and seawater. *Bulletin of the European Association Fish Pathologists*, **18**(4): 127-131.

Munday, B.L., Owens, L. (1998). Viral diseases of fish and shellfish in Australian mariculture. *Fish Pathology*, **33**(4): 193-200.

Nowak, B.F. (1998). Effects of prophylactic treatments with malachite green on early life stages of rainbow trout. *Australasian Journal of Ecotoxicology*, **3**: 141-146.

Nowak, B.F., Bryan, J. (1998). Introduction to fish gill histopathology, Aqua Education, Launceston.

O'Sullivan, D., Purser, G.J., Munday, B.L. (1998). Potential impacts of marine farming of Atlantic salmon in South Australia- Escaped stock and other interactions, Primary Industry & Resources South Australia Aquaculture Group.

Pankhurst, N.W. (1998). Aquaculture: an international perspective. Maori and the Business of Aquaculture, Auckland, 1-11

Pankhurst, N.W. (1998). Further evidence of the equivocal effects of cortisol on *in vitro* steroidogenesis by ovarian follicles of rainbow trout *Oncorhynchus mykiss*. *Fish Physiology and Biochemistry*, **19** (4): 315-323.

Pankhurst, N.W., Thomas, P.M. (1998). Maintenance at elevated temperature delays the steroidogenic and ovulatory responsiveness of rainbow trout *Oncorhynchus mykiss* to luteinizing hormone releasing hormone analogue. *Aquaculture*, **166**: 163-177.

Pankhurst, N.W. (1998). 'Reproduction', Biology of Farmed Fish, Sheffield Academic Press Ltd, Kenneth D. Black & Alan G.Pickering (ed), Sheffield Academic Press. Sheffield, England, 1-19.

- Pankhurst, P.M., Hilder, M.L. (1998). Effect of light intensity on feeding of striped trumpeter *Latris lineata* larvae. *Marine and Freshwater Research*, **49**: 363-368.
- Purser, G.J. (1998). Effect of stocking density on growth, feeding, and cortisol levels of greenback flounder. *Austasia Aquaculture*, **12**(2): 17-18.
- Purser, G.J. (1998). Testing of salmon smolt. *Austasia Aquaculture*, **12**(4): 65-66.
- Purser, G.J. (1998). The image of aquaculture in the public arena. *Austasia Aquaculture*, **12**(1): 60-61.
- Purser, G.J. (1998). The production of organic salmon. *Austasia Aquaculture*, **12**(2): 67-68.
- Richardson, A.M.M., Swain, R., Shepherd, C.J. (1998). The strandline fauna of beach on the North & West coasts of Tasmania, Flinders and King Islands, Australian Heritage Commission.
- Ritar, A.J., (1999). Propagation of southern rock lobster (*Jasus edwardsii*) in Tasmania. In *Proceedings of the 1999 FRDC rock lobster propagation workshop, Jan 29th - 31st, Hobart*. Tasmanian Aquaculture and Fisheries Institute, University of Tasmania, p. 16-18.
- Ritz, D.A., Metillo, E.B. (1998). Costs and benefits of swarming behaviour in mysids: does orientation and position in the swarm matter?, *Journal of the Marine Biological Association of the United Kingdom*, **78**: 1011-1014.
- Rixon, A.J., Johnson, C.R., Jones, A.S. (1998). Stability in paradigm biological systems”, *Journal of Australian Mathematical Society*, **40**: (Ser B) 23-34.
- Robson, B.J., Barmuta, L.A. (1998). The effect of two scales of habitat architecture on benthic grazing in a river, *Freshwater Biology*, **39**: 207-220.
- Shelverton, P.A., Carter, C.G. (1998). The effect of ration on behaviour, food consumption and growth in juvenile greenback flounder (*Rhombosolea tapirina*: Teleostei)”, *Journal of the Marine Biological Association of the United Kingdom*, **78**(4): 1307-1320.
- Sherwood, J., Walls, J.T., Ritz, D.A. (1998). Amathamide alkaloids in the pycnogonid, *Stylopallene longicauda*, epizoic on the chemically defended bryozoan, *Amathia wilsoni*, *Papers and Proceedings of the Royal Society of Tasmania*, **132**: 65-70.
- Stewart, N.J. (1998). The *in vitro* production of sphaerule-like bodies in platypus (*Ornithorhynchus anatinus*) derived and toad (*Bufo marinus*)-derived cultures of *Mucor amphibiorum*, and a platypus-derived culture of *Mucor circinelloides*. *Australian Mammology*, **20**(2): 189-192

Stewart, N.J. (1998). Ulcerative mycosis of platypus. *Microbiology Australia*, Hobart, Tasmania, A25 (1998) [F3]

Thompson, P.A. Spatial and temporal patterns of factors limiting phytoplankton in a salt wedge estuary, the Swan River, Western Australia. *Estuaries*, **21**(4):

Swadling, K.M. (1998). Influence of seasonal ice formation on life cycle strategies of Antarctic copepods PhD thesis.

Woodworth, J.G. (1998). Effects of pulp mill effluents.

Thomas, C., Crear, B., Ritar, A., Mills, D. and Hart, P. (1998). Aquaculture of the southern rock lobster, *Jasus edwardsii*. *Austasia Aquaculture*, Aug/Sept, 24-27.

Thomas, C., Crear, B., Ritar, A., Mills, D. and Hart, P. (1998). Aquaculture of the southern rock lobster, *Jasus edwardsii*. *Fishing Today*, **11**(6), 22-27.

White, R.W.G., Waters, J.M. (1998). Ancient and modern - the Tasmanian galaxiid (Pisces, Galaxiidae) fauna, *Evolutionary Biology at High Southern Latitudes*, Hobart, Tasmania, 17-21.

Young, J.W. (1998). Ecology of midwater zooplankton and fishes off eastern Tasmania, Australia.